

## CTFL-PT Dumps

# ISTQB Certified Tester Foundation Level-Performance Testing

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**NEW QUESTION 1**

Which of the following performance tests commonly results in understanding an application's ability to support future increases of users or larger amounts of data without exceeding the current performance requirement?

- A. scalability test
- B. load test
- C. endurance test
- D. concurrency test

**Answer: C**

**NEW QUESTION 2**

Which performance testing operational activity pattern assists in identifying system functionality that may require correction or optimization?

- A. Batch requests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- B. Concurrency tests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- C. Stakeholder requests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- D. Transactions are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.

**Answer: B**

**NEW QUESTION 3**

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost, especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. An essential operational profile you identified is the quiz participant. Your operational profile discovery efforts have yielded a number of profile attributes. A quiz participant will answer twelve questions if they manage to answer the first eleven correctly. Every user is made aware of a new question nearly simultaneously. The quiz user has limited time to respond using a mobile application. They are unable to respond to subsequent questions after they incorrectly answer a question. However, the quiz participant continues to see new questions even though they may have responded incorrectly to a previous question. If they manage to answer all twelve questions correctly, the quiz application notifies them that they have tentatively won (subject to formal verification) an equal share of a cash prize of an amount set for the particular quiz event. In addition to this individualized interaction, a broadcast video stream is presented in the quiz app providing entertaining commentary, quiz event coordination, event status, and answer explanations. Given this information, what is missing to construct the operational profile for the quiz participant?

- A. The network bandwidth requirements of the video stream intermissions between questions is unknown. The network bandwidth requirements of the video stream intermissions between questions is unknown.
- B. No survey results from past quiz winners that explore how they won. No survey results from past quiz winners that explore how they won.
- C. The quiz response time limit is not specified. The quiz response time limit is not specified.
- D. The design maximum number of users within quiz participant user class is unknown. The design maximum number of users within quiz participant user class is unknown.

**Answer: A**

**NEW QUESTION 4**

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost, especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. The performance test team is assembling criteria for tool selection. They have identified the following criteria:

- Must be able to reliably generate 5 million concurrent virtual quiz participants from multiple data centers with centralized control.
- Must be compatible with REST-based web services and have tight integration with RESTful APIs' OData and OpenAPI.
- Must be able to support nested transaction timers, provide centralized performance data collection and reporting, and integrate with platform monitoring agents used by the Operations team.

Which of the following criterion would best complete the provided set of criteria?

- A. Must protect undesirable performance results from being viewed from unauthorized users.
- B. Must provide shell checking that checks spelling within test script comments.
- C. Must be supported with documentation, training materials, books from known publishers, and an IDE that behaves similarly to popular in-house IDEs.
- D. Must have technical and software maintenance support for product versions two major revisions behind current revision.

**Answer: C**

**NEW QUESTION 5**

Which of the following is a valid reason for aggregating performance test results?

- A. Business stakeholders work with detailed technical status indicators when evaluating an application's performance.
- B. Business stakeholders can evaluate an application's overall performance status.
- C. Technical stakeholders work with aggregated data when isolating causes of performance problems.
- D. Technical stakeholders work with detailed technical status indicators when evaluating an application's performance.

**Answer: A**

#### NEW QUESTION 6

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. A coworker has located various test plan elements under the standard PTP sections in a draft. You have been asked to analyze the quality of the draft. The complete PTP draft cannot be provided here. A content sampling of the PTP is provided.

Based on the content sample below, what is the quality of the draft document when only considering the alignment of content under standard PTP sections?

Draft PTP content:	
PTP Section	PTP Content Element
Performance Test Objectives:	Business leadership anticipates that the updated production environment will sustain 5 million concurrent users over the course of a quiz event.
Application Overview:	The quiz application backend consists of 10 modular multi-tier clusters that are load balanced to support participant responses. Each module consists of 10 web services platforms that are load balanced and submit to a high specification server cluster maintaining a 500 GB in-memory database.
Test Acceptance Criteria:	Ideally 5 million concurrent participants will be supported. However, despite rigorous engineering discipline in design and implementation, anomalies will occur and loss of up to 1% of sessions is acceptable throughout a quiz event. The present back-end is capable of 3.5 million concurrent users with up to a 2.5% session loss.
Testing Tools:	Fifteen ServicesDynamics load generators are located evenly across five data centers located in each of the four US regions and in central Canada. ServicesDynamics management console located at HQ will consolidate performance data from the load generators and from the FizBin platform monitoring agents collecting memory, network and CPU utilization data across the production environment.

- A. 0 misalignments, good
- B. 1 misalignments, good
- C. 2 misalignments good
- D. 3 misalignments needs improvement

**Answer: B**

#### NEW QUESTION 7

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. In order to avoid cooperation among quiz participants, the answers to the multiple choice questions are listed randomly. Confidence in the game's fairness requires that a registered user originate from only one quiz client device. Every user must respond over the same short window of time in order to avoid external assistance and learning the official answer before responding. Only participants who respond correctly may answer the next question. Any activity that appears to violate expected behavior of a rule-following participant will cause the client session to be rejected.

You are currently preparing test scripts to function as a quiz participant.

What input data type is most critical for the test script to incorporate to ensure that the concurrency objective will be properly tested?

- A. In order to properly test the concurrency objective, the test script must answer each trivia question with the same answer as every other virtual user.
- B. In order to properly test the concurrency objective, the test script must provide a random password to the application's login system.
- C. In order to properly test the concurrency objective, the test script must present a unique user name to the application's login system.
- D. In order to properly test the concurrency objective, the test script must supply the system provided unique session ID with each answer provided.

**Answer: B**

#### NEW QUESTION 8

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. Before your team begins testing, the team needs to present the performance test plan to technical stakeholders. Which of the following sets of plan attributes would you recommend be included in this presentation?

- A. Sales has indicated that quiz events for Sponsor A offering \$65,000. Sponsor B offering \$45,500. Sponsor C offering \$25,000 will be taking place during the first week of performance testing.
- B. Simultaneous session tests are focused on the back end.
- C. and are not end-to-end.
- D. Variability in user behavior, mobile devices and mobile communications introduces session drop opportunities outside application control.
- E. Using load generators located in 5 high availability data centers in North America will ensure session drops are most likely caused by application issues, thus allowing us to isolate the root cause of any concurrency issues that arise.
- F. Test scripts based on replaying recorded communication will take 30 hours each to write and test due to the extensive parameterization required to respond to quiz questions. Development has agreed to share client code that can be scripted to authenticate and respond to quiz questions automatically.
- G. The fully programmed script will likely take 18 hours each to write and test. Fully programmed scripts will utilize the identical communications stack of the actual client, avoiding missed communication nuances.
- H. ii include ii
- I. iv, v exclude
- J. ii, iii include i, iv, v exclude

- K. ii, v include i, ii, iv exclude  
L. ii  
M. iv, v include i, ii exclude

**Answer: B**

#### NEW QUESTION 9

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. You performed 100 test runs that provided 5 million virtual concurrent users. You have measurements of participant concurrency at the last question for each test run. In your analysis, you order all the concurrency test results by measured concurrency value from best to worst. You determine 85%, 90%, 95% and 100% values by selecting the 85th, 90th, 95th and 100th (last and worst) measured values by counting list positions starting from the best value going towards the worst until you reach the desired list position (ex. 85). Keep in mind, the results in lower list positions are as good or better than the results chosen for reporting. After analyzing the results of the performance tests, you present the following results:

- 85% 4.92 million valid concurrent users
- 90% 4.90 million valid concurrent users
- 95%: 4.0 million valid concurrent users
- 100%: 3.8 million valid concurrent users

Based on these results, what should you report to the stakeholders?

- A. The performance tests clearly have failed to produce a realistic and compatible load. The results should confirm the test oracle in that the 99% of five million participants concurrency objective has been achieved. If the performance test plan had worked correctly, the reported values should have been 85% 4.95, 90% 4.95, 95% 4.95 and 100% 4.95 million valid concurrent users.
- B. These results clearly show that the system update successfully supports 99% of five million participants.
- C. Four samples from the first fifteen ordered test results are presented.
- D. The system update performed much worse than what is presented here.
- E. The system update has failed to meet the 99% of five million participants concurrency objective.
- F. If we pick 85 out of 100 test runs as the minimum level of reliability, the system update does not reliably meet the 99% of five million participants concurrency target. However, not all results are as bad as these.

**Answer: A**

#### NEW QUESTION 10

Which metrics collecting attributes are most commonly associated with the metrics collection methods listed?

- \* 1. Scans collections of and compiles metrics based on operating system and application messages
- \* 2. Supplements reporting capabilities of another metrics collection method
- \* 3. Most likely unavailable for ongoing metrics collection after performance testing efforts have ceased
- \* 4. Collected metrics data align with the greatest precision to test activities
- \* A Performance test tools
- \* B Performance monitoring tools
- \* C Log analysis tools

- A. 1C, 2A, 3B and 4B  
B. 1C, 2B, 3A and 4A  
C. 1  
D. 2A, 3A and 4B  
E. 1A, 2B, 3B and 4A

**Answer: D**

#### NEW QUESTION 10

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. Based on this scenario, when is the best time within this software and system update project to analyze and assess performance risks?

- A. During the requirements phase  
B. After design phase but prior to implementation phase  
C. Revisited over the course of the development lifecycle  
D. During user acceptance testing and subsequent regression testing

**Answer: D**

#### NEW QUESTION 14

The average time from response reception to database commitment is 1000 milliseconds under maximum concurrent usage. What is the approximate maximum average system throughput if that assumption holds?

- A. 1.667 million transactions/second  
B. 1 million transactions/second correct  
C. 1 million transactions/millisecond  
D. 200,000 transactions/second

**Answer: B**

#### NEW QUESTION 17

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available



on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost, especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. In order to avoid cooperation among quiz participants, the answers to the multiple choice questions are listed randomly. Confidence in the game's fairness requires that a registered user originate from only one quiz client device. Every user must respond over the same short window of time in order to avoid external assistance and learning the official answer before responding. Only participants who respond correctly may answer the next question. Any activity that appears to violate expected behavior of a rule-following participant will cause the client session to be rejected.

You are developing test script code that handles quiz question responses. To do this, you need to ensure that the script emulates the production quiz app client's logic in terms of rule following and client-backend interface specification.

Based on the question description provided, which is one test script behavior you would implement in order to ensure the test script successfully delivers the operational and load profile of a quiz participant?

- A. Recognize whether the previous question response was correct
- B. Set the device identifier as a constant to ensure all virtual user instances use the set value correct
- C. Randomly select the maximum think time limit used to delay question responses.
- D. Use the date-time clock in order to submit question responses on a synchronized schedule with each instance

**Answer: B**

#### NEW QUESTION 19

During design discussions, the performance test team observed that database stored procedures for several popular use cases may be badly coded. Which of the following common performance failures would best confirm the team's concern was justified?

- A. Slow response under all load levels
- B. Slow response under moderate-to-heavy load levels correct
- C. Degraded response over time
- D. Inadequate or graceless error handling under heavy or over-limit load

**Answer: B**

#### NEW QUESTION 22

What is normally performed within the principal performance testing activity called Test Analysis and Design?

- A. Determine scope of performance testing i
- B. Establish action plans should performance issues arise ii
- C. Create the test environment i
- D. Identify risks to the performance tests
- E. Determine load levels, timing parameters, and transactions to be tested
- F. i, ii, iii, iv all true correct
- G. i
- H. i, iii, v true; ii, iv false
- I. i, iv true; ii, iii, v false
- J. ii, iii, v true; i, iv false

**Answer: A**

#### NEW QUESTION 24

Which of the following performance tests commonly results in understanding an application's ability to support future increases of users or larger amounts of data without exceeding the current performance requirement?

- A. scalability test
- B. load test
- C. endurance test
- D. concurrency test

**Answer: C**

#### NEW QUESTION 25

Which is a valid reason for why performance testing load would be applied to the SUT in a ramp-up pattern during a performance test?

- A. Frequent sudden significant increases of load allows the SUT performance to stabilize after each jump in load, thus exhibiting consistent behavior that results in measurements that are more reliable
- B. Gradually increasing the load ensures the SUT remains in a transient performance condition as it responds to the new increase in load, thus exhibiting realistic behavior that improves the realism of the performance test
- C. Gradually increasing the load allows the SUT performance to stabilize after each progressive increment of load, thus exhibiting consistent behavior that results in measurements that are more reliable
- D. Frequent sudden significant increases of load ensure the SUT remains in a transient performance condition as it responds to each new large increase in load, thus exhibiting consistent behavior that results in measurements that are more reliable.

**Answer: B**

#### NEW QUESTION 27

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